

an optical waveguide element for guiding the laser beam emitted from said semiconductor laser into said diffusive reflector while repeatedly totally reflecting the laser beam.

8. (Amended) The semiconductor laser excitation solid state laser apparatus according to claim 1 including a cooling plate and, wherein said solid state laser element has a rectangular cross section and is located on said cooling plate.

IN THE ABSTRACT:

Replace the Abstract with:

ABSTRACT OF THE DISCLOSURE

A solid state laser excited by a semiconductor laser is provided which can generate a stable and highly efficient high power laser beam. The laser apparatus includes a solid state laser element containing an active medium, a semiconductor laser for optically exciting the solid state laser element, a power supply for supplying electric power to the semiconductor laser, and an optical resonator for emission of a laser beam from the optically excited solid state laser element. When the semiconductor laser is pulsed to excite the solid state laser element, current supplied to the semiconductor laser is changed within a single pulse.